

BRAINSTORMING NEURODEGENERATION

Leveraging Genomics, Stem Cells, Gene Therapy and Novel Clinical Trials
for Field-wide Advancement
IDEATION WORKSHOP
SAN FRANCISCO AIRPORT MARRIOTT WATERFRONT
APRIL 15 – 16, 2019

MEETING GOALS:

- Discuss novel models to accelerate therapeutic development for neurodegenerative diseases (NDs)
- Discuss proof of concept examples where genomics and large datasets have enabled progress in ND
- Prioritize elements of common utility
- Explore benefits and considerations for a neutral collective effort across NDs
- Discuss incentive structures to encourage alignment
- Propose an operational framework(s) to move from concept to reality

MONDAY, APRIL 15

Irvine Meeting Room

AGENDA AT-A-GLANCE		
7:30 – 8:30 AM	BREAKFAST (60 mins)	
8:30 – 9:00 AM	Welcome	
	Maria Millan	
	Meeting Objectives	
	Clive Svendsen	
9:00 – 9:30 AM	Opening Plenary – Precision Medicine and Population Genomics (30 mins)	
	Carlos Bustamante	
0.20 10.15 13.5		
9:30 – 10:15 AM	Session I: Leveraging Genomics and Big Data (45 mins)	
	Chair: Carlos Bustamante Chair: Carlos Bustamante	
	Panelists: Joshua Stuart, Ernest Fraenkel, Howard Federoff And Issuing Constitution	
	Anchoring Questions: What can the ND community glass from current generalize approaches?	
	What can the ND community glean from current genomics approaches? What should the ND community leads to model? What should be evaled of?	
	 What should the ND community look to model? What should be avoided? Where have industry efforts failed and is there an opportunity for current 	
	o Where have industry efforts failed and is there an opportunity for current data platform technologies to augment probability of success?	
	data plationin technologies to augment probability of success:	
10:15 – 10:30 AM	BREAK (15 mins)	
10.13 10.30 / 1111	DREATE (15 mms)	
10:30 – 11:15 AM	Session II: iPSC Models, Creating Standards, Utilizing Banks (45 mins)	
	Chair: Lorenz Studer	
	Panelists: Kristin Baldwin, Clive Svendsen, Genie Jones, Stuart Lipton	
	Anchoring Questions:	
	 Do we know enough to create standards? Can more complex models (i.e., 	
	CNS organoids, chip-based approaches) be standardized at this time?	
	 How do we utilize existing banks and establish requirements for future 	
	banks?	
	 Where could consolidated efforts be useful to the community? 	



11:15 AM – 12:00 PM	 Session III: Exploring a Neurodegeneration Consortium Model (45 mins) Chair: Clive Svendsen Panelists: Lucie Bruijn, Margaret Sutherland, Leslie Thompson, Anchoring Questions: What can be learned and broadly applied from the Answer ALS model? What is the existing ND-specific consortium landscape? What are the features & assets? Where are the gaps left by existing consortia? How could a new combined approach address those gaps?
12:00 – 1:00 PM	LUNCH (60 mins)
1:00 – 1:30 PM	Plenary – Accelerating CNS Therapy Development: Examples from the Healey Center ALS Platform Trial (30 mins) Merit Cudkowicz
1.20 2.15 73.5	
1:30 – 2:15 PM	Session IV: Accelerating Drug Development Based on Patient Data (45 mins) Chair: Ernest Fraenkel Panelists: Mark Frasier, Ralph Kern, Omar Khwaja, Merit Cudkowicz, David Higgins Anchoring Questions: How can the ND community leverage genomic and clinical data, patient-derived iPSCs, etc. to accelerate drug development? What are the challenges? Are there current exemplars in other disease areas that the ND community should look to model? Does industry perceive value in a consortium approach utilizing pooled data sets? Patient perceived value in participation
2.15 2.00 73.5	
2:15 – 3:00 PM	 Session V: Clinical Trials in Regenerative Medicine – Benefits of a Consortium (45 mins) Moderator: Abla Creasey Panelists: Malin Parmar (ESC-based), Jun Takahashi (iPSC-based), Howard Federoff (Gene Therapy) Anchoring Questions: What could a cell or gene therapy approach offer that is different from traditional/past approaches? Are there approaches in other disease areas that the ND community should look to model?
3:00 – 3:15 PM	BREAK (15 mins)
3.00 - 3.13 PM	DICEAR (15 mills)
3:15 – 3:45 PM	Plenary – Regulatory Pathway for Novel Therapies in Neurodegeneration (30 mins) • Wilson Bryan
3:45 – 4:15 PM	Wrap up & Close
5.45 – 4:13 PM	Maria Millan Kent Fitzgerald
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6:00 – 8:30 PM	DINNER at Trapeze (266 Lorton Ave, Burlingame, CA 94010)



TUESDAY, APRIL 16

Irvine Meeting Room

	Irvine Meeting Room		
AGENDA AT-A-GLANCE			
7:30 – 8:30 AM	BREAKFAST (60 mins)		
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8:30 – 9:00 AM	Plenary – Federal Funding Initiatives in Neurodegeneration (30 mins) • Walter Koroshetz		
9:00 – 9:45 AM	Session VI: Taking Regenerative Medicine ND Candidates to the Clinic (45 mins) Chair: Daniela Bota Panelists: Wilson Bryan, Robert Pacifici, Marg Sutherland Anchoring Questions: Regulatory considerations and challenges for consortium sponsored trials What regulatory advantages or potential challenges would a consortium model pose to the development of novel endpoints, access to expedited regulatory designations and the use of adaptive trial design for ND?" What are the key infrastructure gaps preventing advancement of regenerative ND candidates to the clinic?		
	 What solutions could be applicable (e.g., data platforms for imaging and surrogate measures, registries and data repositories, etc.)? 		
9:45 – 10:00 AM	BREAK (15 mins)		
9.43 – 10.00 AW	DREAK (13 mins)		
10:00 – 11:30 AM	 Breakout Session: Assessing the Value of a Neurodegeneration Consortium (90 mins) Key Questions for Consideration: Feasibility— Is the field ready for a cross-cutting ND consortium? What common challenges do current disease-specific consortia face? Where can redundancy be minimized? Components — Given the current landscape of disease-specific consortia/efforts, what elements (e.g., platforms, processes, etc.) would it make sense to pool together/consolidate? What elements should be handled by disease-specific entities? Incentives — What would incentivize stakeholders to join a neutral/centralized consortium? What challenges need to be addressed? 		
11:30 AM – 12:15 PM	Report Out & Discussion (45 mins) • Group leads to present key discussion points • Full conference discussion to prioritize key points for advancement		
12:15 – 1:15 PM	LUNCH (60 mins)		
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1:15 – 2:15 PM	Session VII: Would an ND Consortium Accelerate Therapy Development: Considerations for a Path Forward (60 mins)		
2:15 – 3:00 PM	Closing Remarks (45 mins) • Clive Svendsen, Maria Millan, Ekemini Riley		
3:00 PM	DEPARTURE		

